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A Three-Level Control Architecture For Autonomous Vehicle.. - Miura, Ito, Shirai (1997) (Correct)
 level should be investigated more actively for **realizing** intelligent vehicles that can maneuver safely with a reactive control of a vehicle in a short **time** cycle 2) the tactical level decides proper driving simulator in various traffic scenarios **simulation** results show the feasibility of the
www-cv.ccm.eng.osaka-u.ac.jp/members/jun/psfiles/itsc97.ps.gz

PCR-Assist CBR for Delivering Pre-Recorded MPEG-2 Transport ... - Du, Hsieh, Lee, Chang (Correct)
 Note that even though these curves are derived from **real** MPEG-2 traces. The curve and data used here are PCR-assist Dual-Rate CBR (PDCBR) They utilize the **time** stamps inserted by the encoder to regulate the side. In this paper, we study two new CBR **transmission** schemes, called PCR-assist CBR (PCBR) and
ftp.cs.umn.edu/dept/users/hsieh/PCR-Assist.ps

Lower Bounds for Linear Satisfiability Problems - Erickson (1997) (Correct)
 some fixed linear equation in r variables, given n **real** numbers, do any r of them satisfy the equation? problem can be solved in $O(n^{r/2})$ **time** when r is odd, or $O(n^{r/2} \log n)$ **time** when r is
 1987. 14] H. Edelsbrunner and E. P. Mücke. **Simulation** of simplicity: a technique to cope with
compgeom.cs.uiuc.edu/~jeffe/pubs/linsat.ps.gz

Example-Based Head Tracking - Niyogi, Freeman (1996) (Correct) (6 citations)
 We show reasonable experimental results for a **real-time** prototype running on an inexpensive
 We show reasonable experimental results for a **real-time** prototype running on an inexpensive workstation. 2
freeman@merl.com From: IEEE 2nd Intl. Conf. on **Automatic** Face and Gesture Recognition, Killington, VT,
www.merl.com/reports/TR96-34/TR96-34.ps.gz

An Optimal Ray Traversal Scheme for Visualizing Colossal.. - Law, Yagel (1996) (Correct) (1 citation)
 of educational value to anatomical visualization. **Real time** or interactive software rendering of such
 sometimes stored in a compressed form. At rendering **time**, parts of the volume are requested by the
www.cis.ohio-state.edu/volviz/Papers/1996/colossal.ps.gz

Kernel-Level Threads for Dynamic, Hard Real-Time.. - Humphrey, Wallace.. (1995) (Correct) (3 citations)
 Kernel-Level Threads for Dynamic, Hard **Real-Time** Environments Marty Humphrey, Gary Wallace
counter.cs.umd.edu/~rich/courses/cmsc818G-s98/papers/spring_kernel.ps

On the Calculation of Time-Varying Stability Radii - Wirth (1998) (Correct)
 which system (1) becomes unstable. Both the case of **real** and complex perturbations were considered. The
 On the calculation of **time-varying** stability radii Fabian Wirth Institut für
 for computation of the **real** stability radius. **Automatica**, 31:879-890, 1995. 27] J. Sreedhar, P. Van
www.mathematik.uni-bremen.de/~fabian/work/Archive/TVStabrad.ps.gz

The Complexity of Automated Reasoning - André Vellino (1989) (Correct) (6 citations)
 should be given to it. For any fixed interval of **real** numbers we can find a polynomial function whose
 emulate human thinking. What was not known at the **time** was that the problem of producing short proofs for
 the relative complexity of proofs produced by the **automatic** theorem proving procedures of analytic
ai.iit.nrc.ca/~andre/Vellino_Thesis.ps.gz

Implementation Of A Parallel Processing.. - Goulard, Mayrand, ... (Correct)
 New Brunswick, E3B 5C8, Canada Abstract **Realization** of an Integrated Remote Monitoring and
 processing architecture to provide close-to-**real-time** data validation assistance to plant personnel.
 more sophisticated and complex, the need for **automatic** operation of equipment, both for process
www.crm.umontreal.ca/~physnum/WEB_OLD/Physnum/..pub/parallel/rt93.ps.Z

Low-complexity Video Coding for Receiver-driven Layered .. - McCanne, Vetterli, Van .. (1997) (Correct) (49 citations)
 whiteboard conferencing applications. Because these **real-time** media are transmitted at a uniform rate to
 conferencing applications. Because these **real-time** media are transmitted at a uniform rate to all the
 solution for scalable multicast video **transmission** in heterogeneous networks. In addition to a
www.cs.berkeley.edu/~mccanne/papers/mccanne-jsac97.ps.gz

A Framework For The Optimization Of Discrete Event... - Joshi, Unal, White.. (1996) (Correct)
 arrival, queues, and teller service and idle times, through appropriate probability distributions.
 A Framework For The Optimization Of Discreteevent **Simulation** Models B. D. Joshi R. Unal N. H.
 With the growing use of computer modeling and **simulation**, in all aspects of engineering, the scope of
techreports.larc.nasa.gov/pub/techreports/larc/96/NASA-96-17asem-bdj.ps.Z

Interactive Computational Models of Particle.. - Canfield.. (Correct)
 Models Of Particle Dynamics Using Virtual Reality Tom Canfield, Darin Diachin, Lori Freitag,
 and see the results of those changes in **real time**. Unfortunately, the computations involved in a
 in this article is the immersive Cave **Automatic** Virtual Environment (CAVE) developed at the
info.mcs.anl.gov/pub/tech_reports/reports/P609.ps.Z

A Dynamic Network of Hybrid Automata - Göllü, Varaiya (1994) (Correct)
 is a language used for formal specification of **real-time**, in- teractive, distributed systems. SDL
 from these surrounding vehicles. At any given time the list of vehicles with which a given vehicle
 Eskafi, Delnaz Khorramabadi, and P. Varaiya, An **Automatic** Highway System Simulator" Transportation
www-path.eecs.berkeley.edu/~gollu/Papers/aisp96.ps

Discrete-Time Priority Queues with Two-State Markov Modulated.. - Khamisy, Sidi (1992) (Correct)
 is denoted by α , where $\alpha \in \mathbb{R}$ and is a **real number** (otherwise if α has a zero of order 2
 Discrete-Time Priority Queues With Two-State Markov Modulated
 to as slots. The slots correspond to the **transmission time** of a packet, and all packets are assumed
www.cse.ucsc.edu/~rom/moshe/PUBS/m_sidi_priority_92.ps.gz

An Analytic Model for ATM Network Performance and its.. - Karimi, Skillicorn (1997) (Correct) (1 citation)
 AAL protocols: ffl AAL 1, which supports **real-time**, constant bit rate, connection-oriented
 g, the permeability of the network, and l, the **time** required for barrier synchronisation. Networks
 model, we model the pipelining method for data **transmission** from the processor to the network. ffl
www.cs.queensu.ca/TechReports/Reports/1997-414.ps

Viewing A Program Transformation System At Work - Paige (1994) (Correct) (14 citations)
 simulates associative access on a sequential RAM in **real-time** [44,11,15]The result is a way to implement
 source lines per second) that is at least five **times** greater than a conventional approach in which C
 development methodology makes use of fully **automatic**, generic program transformations that capture
cs.nyu.edu/cs/faculty/paige/papers/viewing.ps

A High-performance Endsystem Architecture for Real-time CORBA - Douglas Schmidt (1997) (Correct) (43 citations)
 A High-performance Endsystem Architecture for **Real-time** CORBA Douglas C. Schmidt, Aniruddha Gokhale,
www.infosys.tuwien.ac.at/Research/Corba/archive/special/IWOOS-96.ps.gz

Towards a DNA Solution to the Shortest Common Superstring ... - Gloor, Kari, Gaasenbeek, .. (1998) (Correct) (3 citations)
 consequently large instances cannot be solved in **real-time** by electronic computers. In fact, the
 that act on all the DNA molecules at the same **time**. These recombinant bio-operations may be used to
chan.csd.uwo.ca/~lila/short.ps

Access as a Means of Configuring Cooperative Interfaces - Smith, Rodden (Correct)
 techniques and architectures which support the **real time** presentation of these interfaces. The
 techniques and architectures which support the **real time** presentation of these interfaces. The majority of
www.buva.sowi.uni-bamberg.de/ps-Sammlung/literatur/lancaster/CSCW.6.93.ps.Z

RT-IPC: An IPC Extension for Real-Time Mach - Kitayama, Nakajima, Tokuda (1993) (Correct) (10 citations)
 RT-IPC: An IPC Extension for **Real-Time** Mach Takuro Kitayama 1 Tatsuo Nakajima
www.cs.cmu.edu/afs/cs/project/rtmach/public/papers/ipc93.ps

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Hierarchical Modeling and Analysis of Embedded Systems - Alur, Dang, Esposito, (2003) (Correct) (7 citations)
paper describes the modeling language CHARON for modular design of interacting hybrid systems. The
- a unified object-oriented language for system modelling and simulation. In: ECOOP 98: The 12th European
(see www.relatinal.com) that support modeling, simulation, and code generation, and are increasingly
www.seas.upenn.edu/~pappas/papers/IEEE02.ps.gz

The Use of a Scale Vehicle Testbed for Controller Design and... - Brennan, Alleyne (2001) (Correct)
[10] E.J. Heitzman and E.F. Heitzman, Topsy - a modular chassis parameter measurement system, Society
and control community is to validate detailed simulation results using a full-sized vehicle. For
testbed has been developed for use as an evaluation tool to bridge the design gap between simulation
mr-robot0.me.uiuc.edu/snbrenna/Web/JPUBLICATIONS/JOURNAL/S2001_CSM_SUBMISSION.PDF

Integrated, Feed-Forward Hybrid Electric Vehicle - Lin, Filippi, (2001) (Correct)
Integrated, Feed-Forward Hybrid Electric Vehicle Simulation in SIMULINK and its Use for Power Management
Inc. ABSTRACT A hybrid electric vehicle simulation tool (HE-VESIM) has been developed at the Automotive
vehicle system simulator, and its use for evaluation of power management strategies aimed at
www-personal.engin.umich.edu/~hpeng/SAE2001_Lin.pdf

Design and Evaluation Tools for Automated Highway Systems - Deshpande, Varaiya (1995) (Correct) (5 citations)
this design and evaluation and give a summary of simulation and analysis tool needs. In section 3 we
Design and Evaluation Tools for Automated Highway Systems Akash Deshpande
Design and Evaluation Tools for Automated Highway Systems Akash
www-path.eecs.berkeley.edu/~akash/ehw95.ps

What can Agents do in Industry, and Why? - An Overview of... - Perunak (1998) (Correct) (1 citation)
agents are best suited for applications that are modular, decentralized, changeable, ill-structured, and
areas: coordination of industrial designers, simulation and modeling of complex products and processes,
many other products, including appliances, machine tools, and aircraft. 1.2 Supply Networks Modern
www.erim.org/~vparunak/ca98.pdf

A Fault Tolerance Extension to the Embedded CORBA for the... - Jeon, Kim, Hong, Kim (Correct)
to have the same port number and helps increase modularity in software design and maintenance. As the
Power Windows Fou Airbag Fou Power Locks Fou Powertrain Ecn Body Ecn Can Engine Control Fou
connections. This assumption may lead to a performance problem since it is ineffect to simply send
166.104.226.70/~tkim/docs/mcs.ps

VLIW Processor Codesign for Video Processing - Wilberg, Camposano (1997) (Correct) (7 citations)
ie nearly 3 orders of magnitude smaller. 2 Simulation times: See [1] for a comparison of simulation
4 describes the implementation of the design tools. Section 5 summarizes the analysis results. 1.1.
the application domain. But the designer needs evaluation data which show him/her the quality of the
borneo.gmd.de/~wilberg/desktop/paper/Case_DAEIMTeXDoc_DinA4.ps.Z

Resources-Conscious Customization of CORBA for CAN-based... - Kim, Jeon, Hong, Kim, (2000) (Correct) (3 citations)
to have the same port number and helps increase modularity in software design and maintenance. As the
Fou Fou Instrum. Door Audio Fou Fou Body Ecn Powertrain Ecn Actuators Controllers/Intelli-Sensors
than to do so with a single high performance microprocessor. Second, a distributed embedded
166.104.226.70/~tkim/docs/sor00.ps

A Hypergraph Framework for Optimal Model-Based... - Michelena, Papalambros (1997) (Correct) (2 citations)
solution techniques for individual subproblems, modularity in parametric studies, and multicriteria
empirical data and expressed as computational simulations. Optimization methods have been successfully
tasks in Complex Design Projects: Development of Tools to Represent Design Procedures in Proceedings
ode.engin.umich.edu/papers/COAP-95-95.pdf

Configuration as Composite Constraint Satisfaction - Sablin, Freuder (1996) (Correct) (11 citations)

<http://citeseer.ist.psu.edu/cis?q=Modular+modelling+and+simulation+tool+for+evaluation+of+powertrain...> 3/27/2007

for the configuring of technical systems from modular components. In Proceedings of the Seventh IEEE
Preliminary work toward a knowledge-acquisition tool. In Marcus, S ed Automating Knowledge
PowerPlant FuelSys SupportSys CrankShaft PowerTrain ControlSys Starter Alternator Ignition Diesel
ftp.cs.uni.edu/pub/csp/P-papers/aiman98-ds1.ps.gz

Vehicle Modeling and Simulation in the Duisburg... - Adamski Bardin Bertram (Correct)
simulations specifications based on models modular design synchronized design changes hardware
by capacitances, the inertia of the fluid can be modelled as inductivities and the friction as either
Vehicle Modeling and Simulation in the Duisburg Mechatronics Laboratory D.
www.mechatronik.uni-duisburg.de/wardl./mbs/cad/HillerPaper.pdf

The Diagnostic Architecture of the PEGASUS Project Car - Peti, Obermaier, Paulitsch (2005) (Correct)
assessment over time is necessary. The repeated evaluation of evidence gathered by ONAs provides the
developed TTP [8] network controlling advanced powertrain functionality such as dynamic four-wheel-drive,
cost and to improve reliability and system performance [10, 11] in order to adopt CBM for electronic
www.vmar.s.tuwien.ac.at/~romano/papers/2005/ir-01-2005.pdf

Hybrid Tracking Control for Spark-Ignition Engines - Balluchi, Bicchi, Ceterini, (2000) (Correct)
feedback is demonstrated analytically and by simulations on the full-fledged hybrid model. 1
in this section, the overall hybrid model of a powertrain equipped with a 4-cylinder in-line engine is
of the hybrid modeling of the engine, higher performances of the closed-loop system can be achieved. To
www-cad.eecs.berkeley.edu/Respep/Research/asves/paper/2000/Balluchi_cdc00.pdf

Information Interface To The Scheduling Level Of A Hard Real-Time... - Larsson (1997) (Correct)
the suitability of using the formal verification tool UPPAAL [2, 3] for verification. The verification
The case study is an application example called Powertrain Management, which is an example of a hard
such as the automotive industry, to optimise performance and costs. For these systems to behave
www.docu.uu.se/astec/Reports/Reports/9702.ps.gz

Dynamic On-Demand Updating of Data in Real-Time Database... - Gustafsson, Hansson (2004) (Correct)
setup used in our experiments. The following simulations are conducted and evaluated: Consistency
data freshness notion. The performance evaluation shows that the proposed updating scheme and
project is done in collaboration with Fiat-GM Powertrain, and externally, i.e. between tasks in
www.ida.liu.se/~tislab/publications/2004/gustafsson_sec.pdf

Hybrid Systems and the Design of Embedded... - Balluchi, (1998) (Correct)
provided the X-Math environment to carry out the simulation. tion specific integrated circuits, and
together with an engineering spreadsheet tool is highly desirable and is being developed in
and a continuous time sub-system modeling the powertrain behavior. It is then the plant to be controlled
www-cad.eecs.berkeley.edu/Respep/Research/asves/paper/1998/Balluchi_cdc98_1.pdf

A Hybrid Observer for the Driveline Dynamics - Balluchi, Benvenuti, DL (2001) (Correct)
model [1] supported by a comprehensive set of simulations and experimental data, we concluded that, for
www.eecs.berkeley.edu/Keywords/Powertraincontrol.hybridsystemsobservers.hy-
www-cad.eecs.berkeley.edu/Respep/Research/asves/paper/2001/Balluchi_Ecc01.pdf

Agent-Based Modeling vs. Equation-Based Modeling: A Case... - Parunak, Savit, Riolo (1998) (Correct) (2 citations)
ABM and EBM has consequences for how models are modularized EBM's represent the system as a set of
PA, Agility Forum, 1991. 11) S. Omohundro, Modelling Cellular Automata with Partial Differential
execution consists of evaluating them. 1 Thus "simulation" is the general term that applies to both
www.erim.org/~vparunak/mabs98.pdf

A Design Example Using CASTLE - Ploeger, Wilberg (Correct)
Section 3 describes the compilation and simulation of an application program, section 4 presents
codesign platform which provides a number of design tools for configuring application specific design
in [7]Hu, et al[9] present the codesign of a powertrain module, an example of an automotive
alcatraz.gmd.de/9422/-paulword/dmm95/dmm95.ps

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